

**Missouri Family First Workgroup**

**PRTF Rate Model Based On Occupational Wage Data and Missouri Cost Report Data**

| PRTF Rate Model Using Missouri Averages                 |                                       |
|---|---------------------------------------|
| Hourly Wage and Employee Benefits Source                | Cost Survey                           |
| Wage Dataset Option                                     | Average                               |
| Admin Percentage Data Source                            | Average                               |
| Capital Percentage Data Source                          | Average                               |
| Include State Owned Faculty Data In Allocation Averages | No                                    |
| Estimated Facility Bed Size                             | 60                                    |
| Estimated Occupancy Percentage                          | 87.45%                                |
| Estimated Patient Days                                  | 19,152                                |
| Patient to Staff Ratio                                  | 3.63                                  |
| Registered Nurse Hours Per Patient Days                 | 1.08                                  |
| Mental Health Social Workers Expense Per Patient Day    | \$ 135.30 (a) Divided by Patient Days |
| Nurse Expense per Patient Day                           | \$ 44.82 (b) Divided by Patient Days  |
| Psychiatrist Expense per Patient Day                    | \$ 20.47 (c) Divided by Patient Days  |
| Psychologist Expense per Patient Day                    | \$ 5.34 (d) Divided by Patient Days   |
| Dietician Expense per Patient Day                       | \$ 3.97 (e) Divided by Patient Days   |
| Occupational Therapist Expense per Patient Day          | \$ 4.27 (f) Divided by Patient Days   |
| Total Direct Care Wage Expense                          | \$ 214.15                             |
| Other Direct Care as % of Wage Expense                  | 3.64% (g)                             |
| Daily Direct Care Expense Per-Diem                      | \$ 221.94                             |
| Administrative and General Cost Per Bed                 | \$ 52,654.47 (i)                      |
| Capital Cost Per Bed                                    | \$ 7,068.11 (h)                       |
| Daily Administrative and General Expense                | \$ 164.95                             |
| Daily Capital Expense                                   | \$ 22.14                              |
| Total Daily Expense                                     | \$ 409.03                             |
| Risk Factor   | 2.00%                                 |
| Risk Factor Daily Rate                                  | \$ 8.18                               |
| Risk Factor Adjusted Daily Rate                         | \$ 417.22                             |

The prospective Missouri Private PRTF Per-diem rate was created using a wage rate model which utilized data derived from cost surveys prepared and submitted by potential PRTF providers. These cost surveys were collected February, 2021 or prior. The model specifically examines potential facility; occupancy, staff to patient ratios, necessary nursing hours per patient day, direct care and behavioral health professional wage and overhead expense, and risk factors.

| Average PRTF Data From Missouri Hospital Cost Reports |  |   |   |  |   |
|---|--|---|---|--|---|
| PRTF Cost Center Specific Expense ONLY                | (g)  |   |   |  |   |
|   | Direct Care Salary Working Trial Balance Expense | Direct Care Other Working Trial Balance Expense | Direct Care Other Expense as a Percentage of Direct Care Salary Expense | Allocated Admin and Overhead Expense as a Percentage of Total B Part I Expense | Allocated Capital Expense as a Percentage of Total B Part I Expense |
| Provider #1 - 2018 CRYE                               | \$ 3,344,449                                     | \$ 89,506                                       | 2.68%   | 47.75%   | 5.49%   |
| Provider #3 - 2018 CRYE                               | \$ 2,749,379                                     | \$ 122,079                                      | 4.44%   | 39.69%   | 4.59%   |
| Provider #4 - 2018 CRYE                               | \$ 1,017,184                                     | \$ 38,589                                       | 3.79%   | 45.20%   | 7.51%   |
| Missouri Average                                      | \$ 2,370,337                                     | \$ 83,392                                       | 3.64%   | 44.21%   | 5.86%   |

| Selected         | Cost Survey Data |              |                 |                                     |
|------------------|------------------|--------------|-----------------|-------------------------------------|
|                  | Average          | Median       | 75th Percentile |                                     |
| (h) \$ 7,068.11  | \$ 7,068.11      | \$ 6,947.99  | \$ 7,909.93     | Capital Percent to Total            |
| (i) \$ 52,654.47 | \$ 52,654.47     | \$ 55,518.03 | \$ 63,666.91    | Admin and General Percent to Total  |
| (a) \$ 18.06     | \$ 18.06         | \$ 16.68     | \$ 21.47        | Direct Social Worker Average Wage   |
| (b) \$ 36.49     | \$ 36.49         | \$ 35.76     | \$ 37.19        | Registered Nurse Average Wage       |
| (c) \$ 166.64    | \$ 166.64        | \$ 159.41    | \$ 233.75       | Psychiatrist Average Wage           |
| (d) \$ 43.45     | \$ 43.45         | \$ 45.72     | \$ 46.17        | Psychologist Average Wage           |
| (e) \$ 32.30     | \$ 32.30         | \$ 32.27     | \$ 36.18        | Dietitian Average Wage              |
| (f) \$ 34.74     | \$ 34.74         | \$ 29.81     | \$ 51.58        | Occupational Therapist Average Wage |
| 11.57%           | 11.57%           |              |                 | Employee Benefits Percent to Total  |

| Wage Data from Submitted Cost Surveys                                |                              |                  |               |  |                              |                         |
|--|------------------------------|------------------|---------------|--|------------------------------|-------------------------|
|  | (a)                          | (b)              | (c)           | (d)  | (e)                          | (f)                     |
|  | Mental Health Social Workers | Registered Nurse | Psychiatrist* | Clinical, Counseling, and School Psychologists | Dietitians and Nutritionists | Occupational Therapists |
| Hourly Wage  | \$ 18.06                     | \$ 36.49         | \$ 166.64     | \$ 43.45                                       | \$ 32.30                     | \$ 34.74                |
| Employee Benefits:   | 11.57%                       | 11.57%           | 11.57%        | 11.57%   | 11.57%                       | 11.57%                  |
| Add-on to Hourly Staff Costs For Benefits (Excludes Overtime)        | \$ 2.36                      | \$ 4.77          | \$ 21.80      | \$ 5.68  | \$ 4.23                      | \$ 4.55                 |
| Total Hourly Expense   | \$ 20.42                     | \$ 41.27         | \$ 188.44     | \$ 49.13                                       | \$ 36.53                     | \$ 39.29                |
| Base Rate  |                              |                  |               |  |                              |                         |
| Direct Care Staff Days   | 5,280                        |                  |               |  |                              |                         |
| Direct Care Staff Hours  | 126,720                      |                  |               |  |                              |                         |
| Rounded Full Time Employees  | 61                           |                  |               |  |                              |                         |
| Direct Care Staff Hours Necessary to Maintain Staffing Ratios        | 126,880                      |                  |               |  |                              |                         |
| Direct Care Staff Total Expense                                      | 2,591,261                    |                  |               |  |                              |                         |
| Registered Nurse Hours   | 20,616                       |                  |               |  |                              |                         |
| Rounded Registered Nurse FTEs  | 10                           |                  |               |  |                              |                         |
| Registered Nurse Hours Necessary to Meet Staffing Requirements       | 20,800                       |                  |               |  |                              |                         |
| Registered Nurse Total Expense                                       | 858,350                      |                  |               |  |                              |                         |
| Psychiatrist FTEs  | 1                            |                  |               |  |                              |                         |
| Psychiatrist Hours Necessary to Meet Staffing Requirements           | 2,080                        |                  |               |  |                              |                         |
| Psychiatrist Total Expense   | 391,958                      |                  |               |  |                              |                         |
| Psychologist FTEs  | 1                            |                  |               |  |                              |                         |
| Psychologist Hours Necessary to Meet Staffing Requirements           | 2,080                        |                  |               |  |                              |                         |
| Psychologist Total Expense   | 102,196                      |                  |               |  |                              |                         |
| Dietician FTEs   | 1                            |                  |               |  |                              |                         |
| Dietician Hours Necessary to Meet Staffing Requirements              | 2,080                        |                  |               |  |                              |                         |
| Dietician Total Expense  | 75,978                       |                  |               |  |                              |                         |
| Occupational Therapist FTEs  | 1                            |                  |               |  |                              |                         |
| Occupational Therapist Hours Necessary to Meet Staffing Requirements | 2,080                        |                  |               |  |                              |                         |
| Occupational Therapist Total Expense                                 | 81,718                       |                  |               |  |                              |                         |